Inductive sensor

NJ6-22-SN

- 6 mm flush
- Usable up to SIL 3 acc. to IEC 61508
- ATEX approval Ex-i and Ex-nA/tc for zone 0-2 and zone 20-22
- Degree of protection IP68





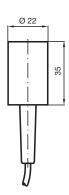








Dimensions



Tec	nnica	il Data

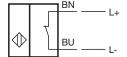
General specifications		
Switching function		Normally closed (NC)
Output type		NAMUR with safety function
Rated operating distance	S _n	6 mm
Installation		flush
Assured operating distance	Sa	0 4.86 mm
Reduction factor r _{Al}		0.4
Reduction factor r _{Cu}		0.3
Reduction factor r ₃₀₄		0.85
Safety Integrity Level (SIL)		up to SIL3 acc. to IEC 61508 Danger! In safety-related applications the sensor must be operated with a qualified fail safe interface from Pepperl+Fuchs, such as KFD2-SH-EX1. Consider the "exida Functional Safety Assessment" document which is available on www.pepperl-fuchs.com as an integral part of this product's documentation.
Output type		2-wire
Nominal ratings		

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Technical Data		
Nominal voltage	U。	8.2 V (R _i approx. 1 kΩ)
Switching frequency	f	0 2000 Hz
Suitable for 2:1 technology		yes , with reverse polarity protection diode
Current consumption		yes, will reverse polarity protection aloue
Measuring plate not detected		≥ 3 mA
• .		≤1 mA
Measuring plate detected Functional safety related parameters		STIIIA
Safety Integrity Level (SIL)		SIL 3
, , , , ,		11850 a
MTTF _d		
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
Standard conformity		FN 000 47 F 0 0000
NAMUR		EN 60947-5-6:2000 IEC 60947-5-6:1999
Standards		EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012
Approvals and certificates		
IECEx approval		
Equipment protection level Ga		IECEx PTB 11.0092X
Equipment protection level Gb		IECEx PTB 11.0092X
Equipment protection level Da		IECEx PTB 11.0092X
Equipment protection level Mb		IECEx PTB 11.0092X
ATEX approval		
Equipment protection level Ga		PTB 00 ATEX 2049 X
Equipment protection level Gb		PTB 00 ATEX 2049 X
Equipment protection level Gc (nA)		PF15CERT3754X
Equipment protection level Da		PTB 00 ATEX 2049 X
Equipment protection level Dc (tc)		PF15CERT3774X
FM approval		
Control drawing		116-0165
UL approval		cULus Listed, General Purpose
Ordinary Location		E87056
Hazardous Location		E501628
Control drawing		116-0454
CCC approval		110 0404
Hazardous Location		2020322315002308
NEPSI approval		2020022010002000
NEPSI certificate		CV 116 1202V
Ambient conditions		GYJ16.1392X
		40 400 % (40 040 %)
Ambient temperature		-40 100 °C (-40 212 °F)
Mechanical specifications		cable silicana. 2 m
Cornection type		cable silicone , 2 m
Core cross-section		0.75 mm ²
Housing material		Valox (PBT), green
Sensing face		Valox (PBT) , green
Degree of protection Cable		IP68
Cable diameter		6 mm ± 0.2 mm
Bending radius		> 10 x cable diameter
General information		
Use in the hazardous area		see instruction manuals



Connection



Application

Danger!

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